

# Centre for Ganga River Basin Management and Studies

Transforming Ganga | Valuing Water



The Centre for Ganga River Basin Management and Studies (**CGanga**) has been established at Indian Institute of Technology, Kanpur (IITK) as a Centre of Excellence to further the development of Ganga River Basin. It will act in the capacity of a comprehensive think-tank for the Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD & GR), Government of India, in its stated goals and objectives vis-à-vis the Ganga River Basin.

## Mandate and Role of CGanga

### 1. Evolve Ganga River Basin Management Plan (GRBMP)

The Centre will continuously work on developing the GRBMP in a phased manner through short / medium / long term goals. It is supporting the Govt. by developing the 2017 / 2020 /2030 versions of the Plan. In doing so it will provide a permanent resource and a think-tank to the Government of India.

### 2. Multi-Stakeholder Management

The Centre plays a crucial role to interact with numerous national and international stakeholders including Central and State Governments, Regulatory Authorities, Industry, Civil Society, Development Finance Agencies and Investors. The purpose of such an interaction is to develop new economic models for water management. It acts as a clearing house of knowledge and activities related to Ganga River Basin.

### 3. Establish a global hub for River Science, Innovation and Management.

The Centre is establishing a global knowledge hub that develops improved river monitoring protocols and devise techniques for data gathering, processing and analysis. In particular it will create specialise expertise in "River Health" and "Innovation in Water".

### 4. Advocacy Forum for Ganga

The Centre shall develop a multi-modal advocacy forum that shall capture views of various stakeholders and disseminate the vision, concepts, policies and framework of GRBMP. The Forum shall also publish global best practices related to water. It will organise numerous events including the flagship **India Water Impact Summit**. The Forum shall develop a framework that moves the Centre to a complete self reliance.

## Background

In the year 2010 the Government of India through Ministry of Environment and Forests, mandated a Consortium of 7 Indian Institutes of Technology (*the First 7 IITs: — IIT, Bombay; IIT, Delhi; IIT, Guwahati; IIT, Kanpur; IIT, Kharagpur; IIT, Madras and IIT, Roorkee*) to develop a comprehensive GRBMP. The first phase of GRBMP was developed from 2010-2014 and submitted to the Government in January, 2015.

## Objective of GRBMP

The major objective of GRBMP is the restoration and maintenance of the wholeness of the Ganga system; the improvement of its ecological health with due regard to conflict of interest in water uses in the entire river basin. This entails adequate provision for natural resources (e.g. soil, water, flora and fauna) conservation and accommodating requirements of a growing population, urbanisation, industrialisation and agriculture while ensuring that the following fundamental aspects of the river system are protected:

- (1) Continuous Flow (*Aviral Dhara*)
- (2) Unpolluted Flow (*Nirmal Dhara*)
- (3) *Longitudinal and Lateral Connectivity*
- (4) *Adequate Space for various River Functions*
- (5) *Function as an Ecological Entity*





## Agreement with the Government

The Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD & GR) signed a formal Memorandum of Understanding with Indian Institute of Technology Kanpur (IITK) on 17th April 2016 at Vigyan Bhawan, New Delhi.

*Prof. Indranil Manna, Director IIT, Kanpur (left) exchanging the formal MoU with Mr. Shashi Shekhar, Secretary MoWR, RD & GR (right) in presence of the Honourable Minister of MoWR, RD & GR, Sushri Uma Bharti (centre).*

## Activity Themes

The Centre divides its activities through five working themes. There are:

### (A) Science & Research

To focus on principal research and scientific themes related to Ganga and Water.

### (B) Engineering and Operations

To better understand engineering and operational interventions within a River Basin

### (C) Technology, Innovation and Entrepreneurship

To accelerate innovation, introduce new technologies and foster entrepreneurship through the Ganga Basin programme.

### (D) Policy, Law and Governance

To develop new models of water governance, create the right regulatory and policy frameworks.

### (E) Finance and Investments

To develop market instruments and attract private sector investments through innovative financing models.

## Partnership Models

### 1 Institutional Partners

For long term collaborative research, governance and impact initiatives

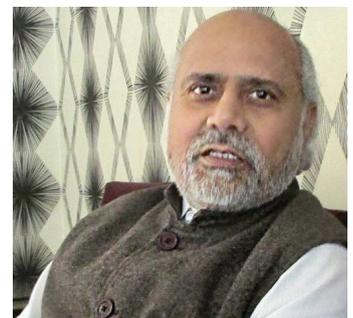
### 2 Industrial Partners

For engineering/infrastructure projects and technology demonstration

### 3 Knowledge Partners

For individuals or entities that want to contribute specific knowledge

*The Centre for Ganga River Basin Management & Studies will become a global centre of excellence for the emerging discipline of River Science and Management. We welcome partnerships from national and international bodies and experts to develop new knowledge to safeguard our water bodies.*



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